

# STIC Search Report

### STIC Database Tracking Number: 101210

TO: Callie Shosho Location: CP3 4D01

Art Unit: 1774 August 20, 2003

Case Serial Number: 10/035736

From: John Calve Location: EIC 1700

CP3/4-3D62

Phone: 308-4139

John.Calve@uspto.gov

Search Notes		





## El©17000

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, ElC 1700 Team Leader 308-4290, CP3/4-3D62

(0)	untary Results Feedback Form
AA	I am an examiner in Workgroup: Example: 1713 Relevant prior art <b>found</b> , search results used as follows:
	☐ 102 rejection
	☐ 103 rejection
	☐ Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	☐ Foreign Patent(s)
	<ul> <li>Non-Patent Literature         <ul> <li>(journal articles, conference proceedings, new product announcements etc.)</li> </ul> </li> </ul>
4	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Results were not useful in determining patentability or understanding the invention
Cor	mments:

Drop off or send completed forms to STIC/EIC1700 CP3/4 3D62



	L #	Hits	Search Text	DBs	Time Stamp
1	L1	68	(ultraviolet or uv) near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary)	TRM_TAB	2003/08/ 21 12:50
2	L4	20	(hydroxybenzophenone or hydroxy adj benzophenone) near10 (quaternary or qyuaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:48
3	L5	2875	(dialkylaminobenzoate or benzoic or aminobenzoate or benzoate) near10 (quaternary or qyuaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:38
4	L6	215	(2 3 4 5) and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:43
5	L7	26	(2 3 4) and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:43
6	L2	39	benzotriazol adj5 (hydroxyphenyl or hydroxy adj phenyl or aminoethyltriethylammon ium adj chloride or aminoethyl adj triethylammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:44
7	L9	3	(("6569511") or ("6445486")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 11:58
8	L10	12	wo-2001040858-\$.did. or jp-2000141874-\$.did. or jp-11254812-\$.did. or jp-11099740-\$.did. or jp-61192781-\$.did. or jp-61192778-\$.did. or jp-61192778-\$.did. or jp-50121178-\$.did. or jp-60123448-\$.did. or jp-31192780-\$.did.	1	2003/08/ 21 12:03

	L #	Hits	Search Text	DBs	Time Stamp
9	L11	0	jp-50121178-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:03
10	L12	5	wo-2001040858-\$.did. or ep-374751-\$.did. or ep-357545-\$.did. or de-2003540-\$.did. or ep-180993-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
11	FAM ILY	1	1990-194962.NRAN.	DERWENT	2003/08/ 21 12:05
12	L14	1	wo-200140858-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
13	L15	0	rd-449015-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:07
14	L16	8	(("5096781") or ("5037979") or ("4937348") or ("3652532")).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:09
15	L17	9	ep-262821-\$.did. or ep-224909-\$.did. or ep-75202-\$.did. or ep-165608-\$.did. or ep-272576-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:10
16	L18	9	(ultraviolet or uv) near3 (absorbing or absorber) near5 cationic near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:12
17	L3		(hydroxybenzophenone or hydroxy adj benzophenone) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:13
18	L8	20	(hydroxybenzophenone or hydroxy adj benzophenone) near10 (quaternary or quaterniz\$5 or ammonium)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:17

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	L #	Hits	Search Text	DBs	Time Stamp
19	L19	10	(ultraviolet or uv) near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:21
20	L20	2	light near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternized or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:35
21	L22	0	(ultraviolet or uv) near3 (absorbing or absorber) near10 choline adj chloride	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:22
22	L21	4	choline adj chloride near3 (dimethylaminobenzoic or diemthylaminobenzoate)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:28
23	L23	11	("4256493"   "5089250"   "5610257"   "5643356"   "5686633"   "5719204"   "6106599"   "6124376"   "6142618"   "6200369"   "6270214").PN.	USPAT	2003/08/ 21 12:23
24	L25	0	lightfastness near3 (absorbing or absorber) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:25
25	L24	3	23 and (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic) near10 (structure or formula)		2003/08/ 21 12:25
26	L26	4	ammonium or quaternized or quaternary or quaternary or quaternized or	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:27

	L #	Hits	Search Text	DBs	Time Stamp
27	L27	4	ep-867486-\$.did. or wo-9720000-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:27
28	L28	10	jp-10007958-\$.did. or jp-10007969-\$.did. or jp-10278435-\$.did. or jp-11099740-\$.did. or jp-2000141875-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:29
29	L29	3	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) near5 (quaternary adj ammonium or quaternized or quaternized or quaternized or cationic) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:36
30	L32	284	(ultraviolet or uv or light) near3 (absorber or absorbing) same (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:38
31	L30	30	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) same (quaternary adj ammonium or quaternized or quaternized or cationic) same (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:37
32	L31	45	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) same (quaternary adj ammonium or quaternized or quaternized or cationic)	EPO; JPO; DERWENT	2003/08/ 21 12:38

	L #	Hits	Search Text	DBs	Time Stamp
33	L33	7	(ultraviolet or uv or light) near3 (stabilizer or stabilizing) near5 (quaternary adj ammonium or quaternized or quaternary or quaternized or cationic)		2003/08/ 21 12:38
34	L34	91	(ultraviolet or uv or light) near3 (absorber or absorbing) near5 (quaternary adj ammonium or quaternized or quaternized or quaternized or cationic)		2003/08/ 21 12:39
35	L35	0	benzotriazol adj5 (ammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:45
36	L36	0	benzotriazol adj10 (ammonium adj chloride)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:45
37	L38	8	benzotriazol adj5 \$15ammonium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:47
38	L40	32	(hydroxybenzophenone or hydroxy adj benzophenone) near10 \$15ammonium	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:10
39	L41	39	stabilizer near5 (quaternary adj ammonium or quaternized or quaternary) near10 (structure or formula)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 12:53
40	L42	2	wo-9720000-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:34
41	L43	2	("5885337").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:11

	L #	Hits	Search Text	DBs	Time Stamp
42	L44	2	43 and ink	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/ 21 13:11

=> file reg

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STRUCTURE FILE UPDATES: 18 AUG 2003 HIGHEST RN 569296-21-5 DICTIONARY FILE UPDATES: 18 AUG 2003 HIGHEST RN 569296-21-5

=> d his nofile

(FILE 'HOME' ENTERED AT 08:42:23 ON 20 AUG 2003)

FILE 'HCA' ENTERED AT 08:42:54 ON 20 AUG 2003 E US20030119939/PN

L1 1 SEA ABB=ON PLU=ON US2003119939/PN
D SCAN
SEL L1 RN

FILE 'REGISTRY' ENTERED AT 08:43:11 ON 20 AUG 2003

L2 9 SEA ABB=ON PLU=ON (119-66-4/BI OR 14234-65-2/BI OR 171504-00-0/BI OR 191678-31-6/BI OR 223463-29-4/BI OR 3399-67-5/BI OR 501-97-3/BI OR 7632-00-0/BI OR 88-74-4/BI)

D SCAN

L3 6 SEA ABB=ON PLU=ON L2 AND (1-10/N AND 1-5/NR)
D SCAN

FILE 'LREGISTRY' ENTERED AT 08:46:30 ON 20 AUG 2003

FILE 'REGISTRY' ENTERED AT 08:47:41 ON 20 AUG 2003 D SCAN L2

FILE 'LREGISTRY' ENTERED AT 08:47:54 ON 20 AUG 2003 L4

FILE 'REGISTRY' ENTERED AT 09:23:32 ON 20 AUG 2003

L5 14 SEA SSS SAM L4 L6 STR L4

L7 11 SEA SSS SAM L6 D QUE STAT L7

L8 166 SEA SSS FUL L6 SAVE L8 SHOSHO736/A

L9 35074 SEA ABB=ON PLU=ON 333.415?/RID L10 67 SEA ABB=ON PLU=ON L8 AND L9

L11 99 SEA ABB=ON PLU=ON L8 NOT L10

FILE 'HCA' ENTERED AT 09:26:59 ON 20 AUG 2003

L12 66 SEA ABB=ON PLU=ON L8 L13 17 SEA ABB=ON PLU=ON L10

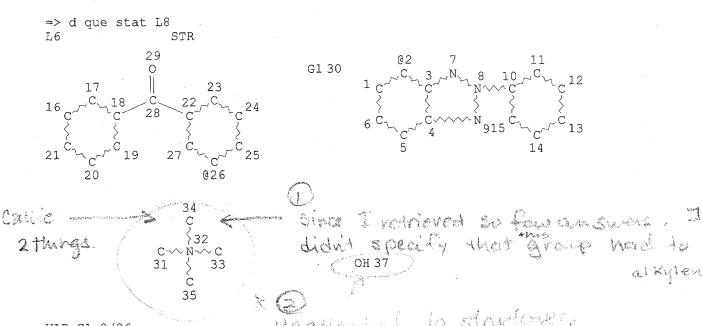
L14 52 SEA ABB=ON PLU=ON L11

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17 SEA ABB=ON PLU=ON L13 AND 1907-2001/PY,PRY
L15
            48 SEA ABB=ON PLU=ON L14 AND 1907-2001/PY, PRY
          30247 SEA ABB=ON PLU=ON INK?(A) JET? OR INKJET? OR INK?(A) PRINT?
              6 SEA ABB=ON PLU=ON L15 AND L17
              O SEA ABB=ON PLU=ON L16 AND L17
         194773 SEA ABB=ON PLU=ON INK? OR PRINT?
L20
L21
              O SEA ABB=ON PLU=ON L16 AND L20
     FILE 'STNGUIDE' ENTERED AT 09:29:35 ON 20 AUG 2003
     FILE 'REGISTRY' ENTERED AT 09:32:23 ON 20 AUG 2003
              1 SEA ABB=ON PLU=ON L11 AND 113184-23-9
L22
L23
             98 SEA ABB=ON PLU=ON L11 NOT L22
                E 113-23-9/RN
                E 113184-23-9/RN
              1 SEA ABB=ON PLU=ON 113184-23-9/RN
L24
                D SCAN
     FILE 'HCA' ENTERED AT 09:33:24 ON 20 AUG 2003
L25
             42 SEA ABB=ON PLU=ON L23
             11 SEA ABB=ON PLU=ON L24
L26
L27
              1 SEA ABB=ON PLU=ON L25 AND L26
               D SCAN L26
L28
              1 SEA ABB=ON PLU=ON L27 AND 1907-2001/PY,PRY
             42 SEA ABB=ON PLU=ON L25 OR L28
L29
             10 SEA ABB=ON PLU=ON L26 AND 1907-2001/PY, PRY
L30
         237374 SEA ABB=ON PLU=ON 42/SC,SX
L31
             2 SEA ABB=ON PLU=ON L29 AND L31
L32
             3 SEA ABB=ON PLU=ON L30 AND L31
42 SEA ABB=ON PLU=ON L29 OR L32
7 SEA ABB=ON PLU=ON L30 NOT L33
L33
T.34
L35
     FILE 'REGISTRY' ENTERED AT 09:37:03 ON 20 AUG 2003
             15 SEA ABB=ON PLU=ON L10 AND 1-10/S
T.36
     FILE 'HCA' ENTERED AT 09:39:17 ON 20 AUG 2003
              6 SEA ABB=ON PLU=ON L15 AND L20
L37
              3 SEA ABB=ON PLU=ON L15 AND L31
L38
             17 SEA ABB=ON PLU=ON L37 OR L38 OR L18 OR L15
L39
              1 SEA ABB=ON PLU=ON FIBROSIS? AND L34
L40
             41 SEA ABB=ON PLU=ON L34 NOT L40
L41
              5 SEA ABB=ON PLU=ON L41 AND BACTER?
L42
                D SCAN
             36 SEA ABB=ON PLU=ON L41 NOT L42
L43
              O SEA ABB=ON PLU=ON L43 AND L20
T.44
              6 SEA ABB=ON PLU=ON L43 AND POLYM?
L45
                D SCAN
              30 SEA ABB≕ON
                            PLU=ON L43 NOT L45
L46
              1 SEA ABB=ON PLU=ON L46 AND (L17 OR L20 OR L31)
L47
L48
              1 SEA ABB=ON PLU=ON L45 AND (L17 OR L20 OR L31)
                D SCAN
             31 SEA ABB=ON PLU=ON L46 OR L48
L49
     FILE 'LCA' ENTERED AT 09:45:48 ON 20 AUG 2003
     FILE 'HCA' ENTERED AT 09:46:32 ON 20 AUG 2003
                D SCAN L1
         408720 SEA ABB=ON PLU=ON 74/SX,SC
L50
             2 SEA ABB=ON PLU=ON L41 AND L50 31 SEA ABB=ON PLU=ON L49 OR L51
L51
L52
```

#### C. Shosho

L53	1002267	SEA ABB=ON STAIN? OOR TINCT? OR T				OR COI								
L54	6	SEA ABB≕ON	PLU=ON	L34	AND	L53								
L55	31	SEA ABB=ON	PLU=ON	L52	OR I	54								
L56	6	SEA ABB≕ON	PLU=ON	L52	AND	(L17)	OR	L20	OR	L31	OR	L53	OR	L50)
L57	25	SEA ABB=ON	PLU=ON	L55	NOT	L56								
L58	25	SEA ABB=ON	PLU=ON	L57	TOM	L26								
L59	12	SEA ABB=ON	PLU=ON	L15	AND	(L17)	OR	L20	OR	L31	OR	L53	OR	L50)
L60	.0	SEA ABB≕ON	PLU=ON	L59	NOT	L15								
L61	5	SEA ABB≕ON	PLU=ON	L15	TON	L59								
L62	11	SEA ABB=ON	PLU=ON	L59	TOM	L1								
L63	6	SEA ABB≕ON	PLU=ON	L56	TON	L1								
L64	25	SEA ABB=ON	PLU=ON	L57	TON	L1								
L65	11	SEA ABB=ON	PLU=ON	L59	TOM	L1								

FILE 'REGISTRY' ENTERED AT 09:54:41 ON 20 AUG 2003



VAR G1=2/26 NODE ATTRIBUTES:

NSPEC IS RC AT 31
NSPEC IS RC AT 33
NSPEC IS RC AT 34
NSPEC IS RC AT 35
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 5

NUMBER OF NODES IS 36

STEREO ATTRIBUTES: NONE

L8 166 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED 632 ITERATIONS

SEARCH TIME: 00.00.01

166 ANSWERS

=> file hca

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FILE COVERS 1907 - 14 Aug 2003 VOL 139 ISS 8 FILE LAST UPDATED: 14 Aug 2003 (20030814/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The utility for these records are the closest I could find to your application.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

=> d L59 ibib abs hitind hitstr

L59 ANSWER 1 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 139:44260 HCA

TITLE: Ink compositions containing

quaternary-substituted lightfastness agents

INVENTOR(S): Smith, Thomas W.; McGrane, Kathleen M.

PATENT ASSIGNEE(S): Xerox Corporation, USA

SOURCE: U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO
CCUMENT TYPE: Patent

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2003119939 A1 20030626 US 2001-35736 20011107 <-
PRIORITY APPLN. INFO: US 2001-35736 20011107 <-
OTHER SOURCE(S): MARPAT 139:44260

AB Disclosed is an ink compn. comprising (a) water, (b) an anionic dye, (c) a polyquaternary amine compd., and (d) a quaternary ammonium substituted UV absorbing compd. Another embodiment of the present invention is directed to an ink compn. comprising (a) water, (b) a complex of (i) an anionic dye and (ii) a polyquaternary amine compd., and (c) a quaternary ammonium substituted UV

absorbing compd.

IC ICM C03C017-00

ICS C09D005-00

NCL 523160000; 523161000

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and
Other Reprographic Processes)
Section cross-reference(s): 42

ST ink jet printing quaternary substituted lightfastness agents

IT Ink-jet printing

Inks

(ink compns. contg. quaternary-substituted lightfastness
agents)

IT 119-66-4P 14234-65-2P 171504-00-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of quaternary-substituted lightfastness agents for ink

IT 223463-29-4P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(quaternary-substituted lightfastness agents for ink compns.)

RN 223463-29-4 HCA

compns.)

CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● C1~

=> d L59 2-12 ibib abs hitind hitstr

L59 ANSWER 2 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 138:409416 HCA

TITLE: Recording sheets with lightfastness-enhancing

siloxanes

INVENTOR(S): Smith, Thomas W.; McGrane, Kathleen M.

PATENT ASSIGNEE(S): Xerox Corporation, USA

SOURCE:

U.S., 34 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

m. 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT N	O. KIN	ID DATE	APPLICATION	I NO. D	ATE
US 65695	11 B1	2003052	7 US 2001-234	12 20	0011115 <
PRIORITY APPL	N. INFO.:		US 2001-2342	. 20	0011115 <
AB Disclose	d is a recor	ding sheet	which comprises a	substrat	te and an

AB Disclosed is a recording sheet which comprises a substrate and an image-receiving coating situated on at least one surface of the substrate, said image-receiving coating being suitable for receiving images of an aq. ink, said image-receiving coating comprising a lightfastness agent which is a polysiloxane having thereon a hydrophilic moiety and a lightfastness moiety.

IC ICM B32B003-00

NCL 428195000; 347105000; 428447000

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35, 38

ST ink jet recording sheets lightfastness enhancing siloxanes

IT Ink-jet recording sheets

(recording sheets with lightfastness-enhancing siloxanes)

IT 6628-37-1DP, Sodium 2-hydroxy-4-methoxybenzophenone-5-sulfonate, reaction products with diemthylsilanediol-trimethylaminopropyl methylsilanediol copolymer 46874-86-6DP, reaction products with dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 171483-98-0DP, Dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer methyl ether, reaction products 223463-29-4DP, reaction products with diemthylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 531534-02-8DP, reaction products with dimethylsilanediol-ethylene oxide-methylsilanediol graft copolymer Me ether 532383-89-4DP, QMS 435, reaction products with sodium 2-hydroxy-4-methoxybenzophenone-5-sulfonate RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(recording sheets with lightfastness-enhancing siloxanes)
IT 223463-29-4DP, reaction products with diemthylsilanediol-ethylene
 oxide-methylsilanediol graft copolymer Me ether
RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)

(recording sheets with lightfastness-enhancing siloxanes)

RN 223463-29-4 HCA

CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

10/035,736

● Cl~

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 3 OF 12 HCA COPYRIGHT 2003 ACS on STN

20

ACCESSION NUMBER:

137:208447 HCA

TITLE:

Electroactive materials and beneficial agents having a

solubilizing moiety

INVENTOR(S):

Lomprey, Jeffrey R.; Guarr, Thomas F.; Baumann, Kelvin

L.; Giri, Punam

PATENT ASSIGNEE(S):

SOURCE:

Gentex Corporation, USA

U.S., 18 pp., Cont.-in-part of U.S. Ser. No. 454,043.

CODEN: USXXAM

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: !

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION N	0.	DATE	
US 6445486	В1	20020903		US 2000-72411	8	20001128	<
US 6262832	В1	20010717		US 1999-45404	3	19991203	<
JP 2003515791	T2	20030507		JP 2001-54226	5	20001201	<
US 2002008897	A1	20020124		US 2001-90704	7	20010717	<
US 6496294	B2	20021217					
US 2002141032	A1	20021003		US 2001-54108		20011113	<
US 2003030883	A1	20030213		US 2002-21148	5	20020802	<
US 2003053187	A1	20030320		US 2002-28350	6	20021030	<
PRIORITY APPLN. INFO.	:		US	1999-454043	A2	19991203	<
			US	2000-724118	A	20001128	<
			WO	2000-US32632	W	20001201	<
			US	2001-54108	A2	20011113	<

OTHER SOURCE(S): MARPAT 137:208447

AB Electrochromic media for use in an electrochromic device which comprise .gtoreq.1 solvent; a cathodic electroactive material; and an anodic electroactive material are described in which .gtoreq.1 of the cathodic and anodic electroactive materials is electrochromic; and .gtoreq.1 of the cathodic and anodic electroactive materials is assocd. with a solubilizing moiety which serves to increase soly. of one or both of the assocd. cathodic and anodic electroactive materials relative to the same without the solubilizing moiety. Electrochromic media are also described which comprise a beneficial agent which includes a solubilizing moiety which serves to increase soly. of the beneficial agent relative to the same without the solubilizing moiety. Electrochromic devices employing the

media are also described.

ICM G02F001-15 IC ICS G02F011-53; F21V009-00

NCL 359265000

74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 76

ΙT 59568-28-4P, Octamethylferrocene 342597-00-6P **342597-02-8P** 342597-07-3P 342603-27-4P 342597-04-0P 342597-06-2P 342791-20-2P 342791-27-9P 342791-30-4P 342791-23-5P 342791-25-7P 342791-32-6P RL: DEV (Device component use); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(electroactive material and beneficial agents having solubilizing

moieties for use in electrochromic devices)

IT342597-02-8P

> RL: DEV (Device component use); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(electroactive material and beneficial agents having solubilizing moieties for use in electrochromic devices)

RN 342597-02-8 HCA

Benzeneethanaminium, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-N,N,N-CN triethyl-4-hydroxy-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM

CRN 342597-01-7 C24 H35 N4 O CMF

$$\mathop{\mathtt{Et}}\nolimits_3^+ \mathbf{N}^- \mathop{\mathtt{CH}}\nolimits_2^- \mathop{\mathtt{CH}}\nolimits_2^-$$

CM

CRN 14874-70-5

B F4 CMF CCI CCS

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 4 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

137:24103 HCA

TITLE:

Use of benzotriazole UV-absorbers for protection of

CORPORATE SOURCE:

Ciba Specialty Chemicals Inc., UK

SOURCE:

Research Disclosure (2001), 449(Sept.),

P1460-P1464 (No. 449015)

CODEN: RSDSBB; ISSN: 0374-4353 Kenneth Mason Publications Ltd.

PUBLISHER: DOCUMENT TYPE:

Journal; Patent

English

LANGUAGE: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 449015		20010910		

RD 449015

color.

20010910

PRIORITY APPLN. INFO .:

RD 2001-449015 20010910 Ciba Specialty Chems. came up with uncharged and cationic benzotriazole UV absorbers exhibiting very good substantivity in respect to human hair and provide effective UV protection of the hair and of natural or artificial hair color. Cosmetic prepns. contain 0.05-20% by wt., based on the total wt. of the compn., of one UV absorber mixts. or UV absorber antioxidant mixts. Various examples of C1-12 compds. are presented, illustrating the combinations of UV absorbers and antioxidants in cosmetic prepns. which are useful to protect hair and natural artificial hair

CC62-3 (Essential Oils and Cosmetics)

121-79-9 131-57-7 584-45-2D, polysiloxane deriv. 4065-45-6 IT 6197-30-4 15087-24-8 24727-94-4 27503-81-7 5466-77-3 36861-47-9 52793-97-2 56039-58-8 70356-09-1 92484-48-5 92761-26-7 103597-45-1 147897-12-9 154702-15-5 155633-54**-**8 156679-41-3 177190-98-6 180898-37-7 187393-00-6 340964-06-9 340964-13-8 340964-14-9 340964-15-0 340964-16-1 340964-18-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (benzotriazole UV-absorbers for protection of hair)

IT 340964-14-9 340964-15-0 340964-18-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (benzotriazole UV-absorbers for protection of hair)

RN 340964-14-9 HCA

CN 1-Octanaminium, N-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-diethyl-, bromide (9CI) (CA INDEX NAME)

Me- (CH<sub>2</sub>)<sub>7</sub>-
$$N$$
+ (CH<sub>2</sub>)<sub>3</sub>-NH-C-CH<sub>2</sub>-CH<sub>2</sub>
Et

N
N
OH
Bu-t

RN 340964-15-0 HCA

CN 1-Propanaminium, 3-[[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4hydroxyphenyl]-1-oxopropyl]amino]-N, N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 340964-09-2 CMF C27 H40 N5 O2

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 340964-18-3 HCA
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, methyl sulfate (salt)
(9CI) (CA INDEX NAME)

CM· 1

CRN 340964-17-2 CMF C25 H36 N5 O2

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me- 0- SO3-

L59 ANSWER 5 OF 12 HCA COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 135:26940 HCA

John Calve, EIC ~ 1700

Page 10

703-308-4139

TITLE:

Electroactive materials and beneficial agents having a

solubilizing moiety

INVENTOR(S):

Lomprey, Jeffrey R.; Guarr, Thomas F.; Baumann, Kelvin

L.; Giri, Punam

PATENT ASSIGNEE(S): SOURCE:

Gentex Corp., USA PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.			KIND DATE					APPLICATION NO.				DATE					
	WO	2001	0408	58	 A	 1	2001	0607		V	MO 20	00-U	S326	32	2000	1201	<	
		w:	AT,	AU,	BG,	BR,	CA,	CH,	CN,	CZ,	, DE,	DK,	ES,	FI,	GB,	GE,	HU,	ID,
			ΙL,	IN,	JΡ,	KR,	,XM	NO,	NΖ,	PL,	PT,	RO,	RU,	SE,	SG,	SI,	SK,	TR,
			UA,	YU,														
		RW:	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,
			PT,	SE,	TR													
	US	6262	832		В	1	2001	0717		Ţ	JS 19	99-4	5404	3	1999	1203	<	
	EP	1234	211		Α	2	2002	0828		I	EP 20	00-9	8383	1	2000	1201	<	
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	, GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	, AL,	TR						
	JΡ	2003	5157	91	T	2	2003	0507		į	JP 20	01-5	4226	5	2000	1201	<	
	US	2002	0088	97	A	1	2002	0124		Ţ	JS 20	01-9	0704	7	2001	0717	<	
	US	6496	294		В	2	2002	1217										
PRIO:	RIT	APP	LN.	INFO	.:					-	1999-			A	1999	1203	<	
										US 2	2000-	7241	18	Α	2000			
										WO 2	2000-	US32	632	W	2000	1201	<	

MARPAT 135:26940 OTHER SOURCE(S):

The invention relates to electroactive materials and beneficial agents for use in electrochromic devices and to an electroactive material and/or beneficial agent assocd. with a solubilizing moiety which serves to increase soly. of the assocd. material or agent relative to the same without such a solubilizing moiety. An electrochromic medium for use in an electrochromic device comprising a substrate having a front and rear surface , a 2nd substrate having a front and rear surface , and a chamber substrates that may be coated with elec. conductive materials having a bonding sealing member , .gtoreq.1 solvent at cathodic electroactive material, an anodic electroactive material, an optional beneficial agent, where .gtoreq.1 of the cathodic electroactive material, anodic electroactive material, and/or beneficial agent is assocd. With a solubilizing moiety which serves to increase soly. of the assocd. material or agent relative to the same without the solubilizing moiety.

IC G02F001-15

74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes) Section cross-reference(s): 76

ΙT 59568-28-4P, Octamethylferrocene 342597-00-6P **342597-02-8P** 342597-04-0P 342597-06-2P 342597-07-3P 342603-27-4P 342791-20-2P 342791-23-5P 342791-25-7P 342791-27-9P 342791-30-4P 342791-32-6P RL: NUU (Other use, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (electroactive material and beneficial agents having solubilizing moiety for use in electrochromic devices)

ΙT 342597-02-8P

RL: NUU (Other use, unclassified); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (electroactive material and beneficial agents having solubilizing

moiety for use in electrochromic devices)

RN 342597-02-8 HCA

CN Benzeneethanaminium, 3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-N,N,N-triethyl-4-hydroxy-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 342597-01-7 CMF C24 H35 N4 O

Et3+N-CH2-CH2

CM 2

CRN 14874-70-5

CMF B F4

CCI CCS

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L59 ANSWER 6 OF 12 HCA COPYRIGHT 2003 ACS on STN

1

ACCESSION NUMBER:

132:354763 HCA

TITLE:

Ink-jet recording sheet providing

durable image

INVENTOR(S):

Tsuchida, Tetsuo; Meguro, Tatsuya; Inazu, Naoko

PATENT ASSIGNEE(S):

Oji Paper Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	~			
JP 2000141874 PRIORITY APPLIA INFO.:			JP 1998-319020 1998-319020	19981110 <
OTHER SOURCE(S):	M	ARPAT 132:354763		

AΒ The title ink jet recording sheet, on which images are formed by using ag. inks, contains .gtoreq.1 UV absorbent of the formula I (R1-3 = H, C1-4 alkyl, C1-4 hydroxyalkyl; X- = org. or inorg. anion; p = 2-6) and dimethyldiallylammonium chloride-acrylamide copolymer as a cationic polymer. The sheet provides high d. images with improved lightfastness and water resistance.

Ι

ICM B41M005-00 IC

C. Shosho

ICS B41J002-01; C09K003-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST ink jet printing sheet UV absorbent; quaternary ammonium compd polymer printing sheet; allylammonium acrylamide copolymer printing sheet

ΙT Ink-jet recording sheets

UV stabilizers

(ink-jet printing sheet contg. UV absorbent and cationic polymer)

IT Quaternary ammonium compounds, uses RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(polymers; ink-jet printing sheet contg.

UV absorbent and cationic polymer)

IT 29829-57-0, Sumirez Resin 1001 **268741-88-4 268741-90-8** 268741-92-0

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheet contg. UV absorbent and cationic polymer)

IT 268741-88-4 268741-90-8

> RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheet contg. UV absorbent and cationic polymer)

RN 268741-88-4 HCA

Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-CN hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl-

RN 268741-90-8 HCA

Ethanaminium, N-[2-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)]CN hydroxyphenyl]-1-oxopropyl]amino]ethyl]-2-hydroxy-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

• c1-

L59 ANSWER 7 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

TITLE:

131:235778 HCA

INVENTOR(S):

Ink-jet recording material for water-soluble ink

Takahashi, Satomi; Kitamura, Tatsu; Oshima, Kazuaki

PATENT ASSIGNEE(S):

SOURCE:

Oji Paper Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 11254812 PRIORITY APPLN. INFO. OTHER SOURCE(S):	A2	19990921	JP 1998-62877 1998-62877	19980313 19980313	

$$(CH_2)_nCONH(CH_2)_m^{N+}_{n+R^2X^-}$$

AB The <code>ink-jet</code> recording material has a recording layer on a support, the recording layer has fine <code>pigment</code> particles of a 3-40 nm av. primary diam. and of .ltoreq.300 nm av. secondary diam. and a benzotriazole UV-absorbing agent I(R1-3 = H, C1-4 alkyl, C1-4 hydroxy alkyl; X- = anion; <math>n = 0-2; m = 2-6). The recording material shows improved image quality without detracting the light-resistance.

IC ICM B41M005-00

ICS C01B033-12; C09K003-00; B41J002-01; C07D249-20

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST ink jet recording material water soluble; UV absorbing agent pigment particle ink jet recording

IT Ink-jet printing

IT

(ink-jet recording material for water-sol.

ink)

223463-29-4 223463-33-0 223463-35-2
RL: TEM (Technical or engineered material use); USES (Uses) (UV-absorbing agent for ink-jet recording material)

IT 7631-86-9, Nipsil HD 2, uses

RL: TEM (Technical or engineered material use); USES (Uses) (fine pigment particle for ink-jet

recording material)

IT 223463-29-4 223463-33-0 223463-35-2

RL: TEM (Technical or engineered material use); USES (Uses) (UV-absorbing agent for ink-jet recording material)

RN 223463-29-4 HCA

CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

#### • cl-

RN 223463-33-0 HCA

CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]acetyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

Cl-

RN 223463-35-2 HCA

Ethanaminium, 2-[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-CN trimethyl-, chloride (9CI) (CA INDEX NAME)

L59 ANSWER 8 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

130:304055 HCA

TITLE:

Ink-jet printing sheets

INVENTOR(S):

Tsuchida, Tetsuo; Meguro, Tatsuya; Inazu, Naoko

PATENT ASSIGNEE(S):

Oji Paper Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 6 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11099740 PRIORITY APPLN. INFO.	A2:	19990413 JP	JP 1997-261389 1997-261389	19970926 < 19970926 <
OTHER SOURCE(S):	MA	RPAT 130:304055		

OH
$$(CH_2)_nCONH(CH_2)_m - N - R^2 X^-$$
R3

AB Ink-jet printing sheets, esp. suited for aq.
inks, contain a compd. represented by the formula I (R1-3 = H or
C1-4 alkyl or hydroxyalkyl; X- = an org. or inorg. anion; n = 0, 1, or 2;
m = an integer of 2-6).

IC ICM B41M005-00

ICS B41J002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST ink jet printing sheet

benzotriazolyhydroxyphenylpropionylaminoethyltrimethylammonium compd

IT Ink-jet printing

(sheet materials contg. [(benzotriazolyl)hydroxyphenylpropionylamino]et hyltrimethylammonium compds. for)

IT 223463-29-4 223463-30-7 223463-32-9

223463-33-0 223463-35-2

RL: TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheets contg.)

IT 223463-29-4 223463-32-9 223463-33-0

223463-35-2

RL: TEM (Technical or engineered material use); USES (Uses)

(ink-jet printing sheets contg.)

RN 223463-29-4 HCA

CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl -

RN 223463-32-9 HCA

CN Ethanaminium, N-[2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]ethyl]-2-hydroxy-N,N-dimethyl-, chloride (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} & \text{O} \\ \text{HO-CH}_2\text{-CH}_2\text{-N+-CH}_2\text{-CH}_2\text{-NH-C-CH}_2\text{-CH}_2\\ \text{Me} & \text{N} & \text{OH} \end{array}$$

● Cl -

RN 223463-33-0 HCA CN Ethanaminium, 2-[[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]acetyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl-

RN 223463-35-2 HCA CN Ethanaminium, 2-[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl ~

L59 ANSWER 9 OF 12 HCA COPYRIGHT 2003 ACS on STN ACCESSION NUMBER: 114:209376 HCA

John Calve, EIC - 1700

Page 18

703-308-4139

TITLE:

Water-soluble materials for protection against light

Vieira, Eric; Laver, Hugh Stephen INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

Ciba-Geigy A.-G., Switz. Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA7	TENT	NO.		KII	ND	DATE			API	PLICATION NO.	DATE	
	EP	3747	51		_	-	1990			EP	1989-123224	19891215	<
	ΕP	3747	_	DE	A.	_	1992		NIT				
	US	5096	BE, 5781	DE,	ES,	EK,	GB, 1992		1477	US	1989-450114	19891213	<
	CA	2005	651		A	A	1990	0619		CA	1989-2005651	19891215	<
	ΒR	8906	545		Α		1990	0904		ΒŔ	1989-6545	19891218	<
	CN	1043	3728		A		1990	0711		CN	1989-109390	19891219	<
	JΡ	0222	2457		A:	2	1990	0905		JP	1989-329432	19891219	<
PRIOR	IT.	Y APE	LN.	INFO	.:				CH	198	88-4674	19881219	<
OTHER	S	DURCE	(S):			MAI	RPAT	114:	209376				
GI													

AΒ A recording material is claimed contg. .gtoreq.1 stabilizer from R(Z)n [n = 1-4; R = UV-absorber group; Z = ammonium-contg. alkylene or arylene or oxyalkylene group addnl. contg. an acidic or amide or keto group. An ink contg. the above compd. for ink-jet
printing is also described. The compd. is H2O-sol. and the
ink has improved stability. Thus, I was prepd. and used in an ink.

IC

ICM B41M007-02 ICS B41M001-36; G03C001-815

42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 74

ink jet printing UV stabilizer ST

ITInks

(UV stabilizer for)

TT Printing, nonimpact

(ink-jet, UV stabilizer for)

133121-91-2P 133121-98-9P **133121-99-0P** 133122-00-6P ΙT

133823-14-0P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and quaternization of, UV absorber from)

133121-89-8P 133121-90-1P 133121-93-4P

133121-94-5P 133121-95-6P 133121-97-8P

133122-01-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and use of, as UV absorber in ink)

#### IT 133121-99-0P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (prepn. and quaternization of, UV absorber from)

RN 133121-99-0 HCA

CN Ethanaminium, N-[2-[[[2-[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]-2H-benzotriazol-5-yl]carbonyl]oxy]ethyl]-2-hydroxy-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

• Br-

## IT 133121-89-8P 133121-90-1P 133121-93-4P 133121-94-5P 133121-95-6P 133122-01-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and use of, as UV absorber in ink)

RN 133121-89-8 HCA

CN 1,3-Propanediaminium, 2-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N',N',N'-hexamethyl-, bis(methyl sulfate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 133121-88-7 CMF C28 H43 N5 O3

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me- 0- SO3-

RN 133121-90-1 HCA

CN 1,3-Propanediaminium, 2-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N,N',N',N'-hexamethyl-, dichloride

(9CI) (CA INDEX NAME)

●2 Cl-

RN 133121-93-4 HCA

CN Ethanaminium, 2,2'-[[5-(2H-benzotriazol-2-yl)-4-hydroxy-1,3-phenylene]bis[(5,5-dimethyl-1-oxo-5,1-pentanediyl)oxy]]bis[N,N,N-trimethyl-, bis(methyl sulfate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 133121-92-3 CMF C36 H57 N5 O5

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 133121-94-5 HCA

CN 1,3-Propanediaminium, 2-[3-[3-(5-chloro-2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-N,N,N,N',N',N'-hexamethyl-, diiodide (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{O} & \text{CH}_2-\text{N}^+\text{Me}3 \\ & | & \\ & | & \\ & | & \\ & | & \\ & \text{CH}_2-\text{CH}_2-\text{C}-\text{O}-\text{CH}-\text{CH}_2-\text{N}^+\text{Me}3 \\ \\ & \text{CI} & \\ & \text{N} & \\ & \text{OH} & \\ \end{array}$$

●2 I-

RN 133121-95-6 HCA CN 1-Propanaminium, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl~

RN 133122-01-7 HCA
CN Ethanaminium, 2,2'-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]imino]bis[N,N,N-trimethyl-, dichloride (9CI) (CA INDEX NAME)

●2 Cl-

L59 ANSWER 10 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 113:97630 HCA

TITLE: Cationic compounds, their preparation and their use in

John Calve, EIC - 1700

Page 22

703-308-4139

the photochemical stabilization of basic dyeable polyamide, polyacrylonitrile, and

polyester fibers

INVENTOR(S):

Hohener, Alfred; Burdeska, Kurt; Reinert, Gerhard

PATENT ASSIGNEE(S): SOURCE:

Ciba-Geigy A.-G., Switz. Eur. Pat. Appl., 31 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent German LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 357545	A2	19900307	EP 1989-810525	19890712 <
EP 357545	A3	19900321		
R: CH, DE,	ES, FR	, GB, IT, LI		
US 5037979	A	19910806	US 1989-381438	19890718 <
JP 02088546	A2	19900328	JP 1989-187597	19890721 <
JP 05004388	B4	19930119		
PRIORITY APPLN. INFO	.:	CH	1988-2794	19880721 <
OTHER SOURCE(S):	MA	RPAT 113:97630		
GI				

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- The title compds [I; R = H, OH; R1 = Q1, Q2, Q3; R2 = H, halo, alkyl, alkoxy, alkoxycarbonyl, CO2H; R3 = H, halo; R4, R5 = H, alkyl, alkoxy, halo; R6 = H, OH, CO2H; R7 = H, OH, alkoxy; n = 1,2; X = C2-8 alkylene; Y1,Y2 = (substituted) alkyl; Y1Y2N = 5-7 membered heterocyclyl; Y3 =(substituted) alkyl, alkenyl; Y1Y2Y3N = pyridyl, picolinyl; A = colorless anion] were prepd. Thus, 2-(2',4'-dihydroxyphenyl)-4,6diphenyl-1,3,5-triazine in cyclohexanol at 60.degree. was treated with Et2NCH2CH2CH-HCl and then NaOMe. The mixt. was kept 2 h at 120.degree. to give 4'-aminoethyl deriv. which in PhCl at 90.degree. was treated with Me2SO4 to give a quaternary ammonium salt II. II effectively stabilized nylon 6-6 exposed to xenon or fakra illumination for prolonged periods.

IC ICM C07D249-20

ICS C07D251-24; C07D401-12; C08K005-19; C08K005-3492; C08K005-3475

28-19 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 40, 41

STlight stabilizer cationic triazine triazole; arylalkylamine quaternized fiber light stabilizer; polyamide base dyed stabilizer triazine; polyacrylonitrile base dyed stabilizer triazine; polyester base dyed stabilizer triazine

IT

(light stabilizers for, quaternized arylalkylamines as)

128643-99-2P 128644-01-9P **128644-03-1P** 128644-05-3P TT 128644-06-4P 128669-11-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as light stabilizer for base-dyed synthetic fibers)

TT 128644-03-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as light stabilizer for base-dyed synthetic fibers)

128644-03-1 HCA RN

CN Ethanaminium, 2-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-N, N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 128644-02-0 CMF C19 H25 N4 O2

$$\begin{array}{c|c} & \text{Me} \\ & \downarrow \\ & \downarrow \\ & \text{N} \end{array}$$

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

L59 ANSWER 11 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

106:51783 HCA

TITLE:

Water-soluble UV absorbers

INVENTOR(S):

Sugiura, Motoyasu; Araga, Toshimi; Hiruta, Osamu;

Suzuki, Shoichi

PATENT ASSIGNEE(S):

Toyota Central Research and Development Laboratories,

Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
JP 61192781	A2	19860827		JP 1985-33421	19850221 <
PRIORITY APPLN. IN	<b>TO.:</b>		JP	1985-33421	19850221 <
C T					

C. Shosho

AΒ Benzotriazole-based water-sol. UV absorbers I (A, B = H, halogen, alkyl, alkoxy; Z and/or Z1 = quaternary ammonium group) were prepd. for use in coatings. Thus, 0.1 mol 2-(2-hydroxy-5-methylphenyl)-5chlorobenzotriazole was treated with 0.2 mol chlorosulfonic acid in dichlorobenzene at 170-180.degree. for 6 h to obtain yellow crystals, which were heated with 0.1 mol 3-(dimethylamino)propanamine at 150.degree. for 5 h and methylated with 0.1 mol MeI at 120.degree. for 10 h to give II showing excellent performance as light stabilizer in solvent-based baked amino-alkyd coating pigmented white with TiO2.

ICM C09K003-00 IC

ICS A61K007-42; D06P001-642

C09D005-00; C09D005-44 ICA

42-5 (Coatings, Inks, and Related Products)

IT 106463-50-7P 106463-51-8P 106463-52-9P

RL: PREP (Preparation)

(manuf. of, for UV absorbers for coatings)

IT 106463-50-7P 106463-51-8P 106463-52-9P

RL: PREP (Preparation)

(manuf. of, for UV absorbers for coatings)

106463-50-7 HCA RN

CN 1-Propanaminium, 3-[[[2-[3,5-bis(1,1-dimethylethyl)-2-hydroxyphenyl]-2Hbenzotriazol-5-yl]carbonyl]oxy]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

RN 106463-51-8 HCA

1-Propanaminium, 3-[3-[3-(2H-benzotriazol-2-yl)-4-hydroxy-5-methylphenyl]-CN 1-oxopropoxy]-N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)

● Br-

RN 106463-52-9 HCA

CN 1-Propanaminium, 3-[[[4-(5-chloro-2H-benzotriazol-2-yl)-5-hydroxy-2-methylphenyl]sulfonyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} Me & O \\ \parallel & S-NH-(CH_2)_3-N+Me_3 \\ \hline \\ OH & OH \end{array}$$

• I-

L59 ANSWER 12 OF 12 HCA COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER:

73:78488 HCA

TITLE:

Modified poly(ethylene terephthalate)

INVENTOR(S):

Tanaka, Tatsuo; Hanada, Tsuneo; Nogi, Ritsuo;

APPLICATION NO. DATE

Yasuhara, Yutaka

PATENT ASSIGNEE(S):

Toray Industries, Inc.

SOURCE:

Jpn. Tokkyo Koho, 5 pp.

CODEN: JAXXAD

DOCUMENT TYPE:

Patent

KIND DATE

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

JP 45014151 B4 19700520 JP 19670816 <-
AB Light stability (discoloration resistance) of dyed and modified polyester fibers such as dyed poly(ethylene terephthalate) contg. m-HOC6H4SO3Na is improved by incorporating a quaternary ammonium salt 2,3,4,5-R1R2R3R4C6HXn(CH2)2N+R3Cl- (I) in the dye bath. I used were [R,R1,R2,R3,R4, n, and X given]: Me, H, OH, Bz, H, 1, O; Me, OH, H, H, H, 1, CO; Me, H, Me3C, OH, tert-Bu, 0, -; Et, OH, 2-benzotriazolyl, H, H, 0, -; Me, H, H, 2,5-HO(Cl)C6H3CO, H, 1, O; Et, HO, 5-chloro-2-benzotriazolyl, H, H, 0, -; Me, H, OH, Ac, H, 1, O; Me, H, OH,

tert-Bu, H, 1, 0].

NCL 48B01

C. Shosho

ت مير مدينه وري ته م**دينه** الماليات الم

CC 39 (Textiles)

light stability dyed polyester fibers; polyester fibers STdyed light stability; quaternary salts light stabilizers

27147-34-8 **27147-35-9** 27147-36-0 TΨ 27147-38-2 27147-39-3 29490-98-0 27147-37-1

RL: USES (Uses)

(in polyester fibers, for prevention of discoloration)

TT 27147-35-9 27147-37-1

RL: USES (Uses)

(in polyester fibers, for prevention of discoloration)

RN

CN Ammonium, [3-(2H-benzotriazol-2-yl)-2-hydroxyphenethyl]triethyl-, chloride (CA INDEX NAME)

● cl-

RN 27147-37-1 HCA

Ammonium, [3-(5-chloro-2H-benzotriazol-2-yl)-2-hydroxyphenethyl]triethyl-, CNchloride (8CI) (CA INDEX NAME)

● cl-

The utility of these records should be the closest to your art.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

=> d L56 1-6 cbib abs hitind hitstr

L56 ANSWER 1 OF 6 HCA COPYRIGHT 2003 ACS on STN

122:146904 Attempts to photostabilize paper made from high-yield pulp by application of UV screens containing groups to aid their compatibility with cellulose and lignin. Castellan, Alain; Noutary, Carole; Stephen Davidson, R. (Universite Bordeaux 1, Laboratoire de Photophysique et Photochimie Moleculaire, CNRS URA 348, Talence, F-33405, Fr.). Journal of Photochemistry and Photobiology, A: Chemistry, 84(3), 311-16 (English) 1994. CODEN: JPPCEJ. ISSN: 1010-6030. Publisher: Elsevier.

08/20/2003

- AB 2,4-Dihydroxybenzophenone (DHB) is known to be a reasonably efficient UV screen for preventing the **color** reversion of papers made from high-yield pulps. Attempts have been made to improve the performance of this material by increasing its compatibility with cellulose and by the introduction of cationic groups which will help it to locate in lignin-rich areas. The latter has proved successful and the results show that, on a molar basis for the 2,4-dihydroxybenzophenone nucleus, the efficiency is increased by the introduction of ammonium and thiouronium groups. An interesting finding was that a 2,4-dialkyloxyderivative of benzophenone showed similar protective power to that obsd. for DHB.
- CC 74-1 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
  Section cross-reference(s): 43
- IT 131-56-6, 2,4-Dihydroxybenzophenone 3739-72-8 21121-97-1 54518-20-6 161227-03-8 161227-04-9 161227-05-0 161227-06-1 161227-07-2 161227-08-3 161227-09-4 161227-10-7
  - RL: MOA (Modifier or additive use); USES (Uses) (hydroxybenzophenone derivs. as UV screens to photostabilize paper made from high-yield pulp)
- RN 161227-09-4 HCA CN 1-Butanaminium, 4-(4-benzoyl-3-hydroxyphenoxy)-N,N-diethyl-N-methyl- (9CI) (CA INDEX NAME)

Me
$$Et-N+(CH2)4-O$$

$$Et$$

$$OH$$

$$OH$$

معمده والمناف في المناف المستحدث والمناف المناف الم

L56 ANSWER 2 OF 6 HCA COPYRIGHT 2003 ACS on STN
113:97630 Cationic compounds, their preparation and their use in the
 photochemical stabilization of basic dyeable polyamide,
 polyacrylonitrile, and polyester fibers. Hohener, Alfred; Burdeska, Kurt;
 Reinert, Gerhard (Ciba-Geigy A.-G., Switz.). Eur. Pat. Appl. EP 357545 A2
 19900307, 31 pp. DESIGNATED STATES: R: CH, DE, ES, FR, GB, IT, LI.
 (German). CODEN: EPXXDW. APPLICATION: EP 1989-810525 19890712.
 PRIORITY: CH 1988-2794 19880721.
GI

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- AB The title compds [I; R = H, OH; R1 = Q1, Q2, Q3; R2 = H, halo, alkyl, alkoxy, alkoxycarbonyl, CO2H; R3 = H, halo; R4, R5 = H, alkyl, alkoxy, halo; R6 = H, OH, CO2H; R7 = H, OH, alkoxy; n = 1,2; X = C2-8 alkylene; Y1,Y2 = (substituted) alkyl; Y1Y2N = 5-7 membered heterocyclyl; Y3 = (substituted) alkyl, alkenyl; Y1Y2Y3N = pyridyl, picolinyl; A = colorless anion] were prepd. Thus, 2-(2',4'-dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine in cyclohexanol at 60.degree. was treated with

Et2NCH2CH2Cl-HCl and then NaOMe. The mixt. was kept 2 h at 120.degree. to give 4'-aminoethyl deriv. which in PhCl at 90.degree. was treated with Me2SO4 to give a quaternary ammonium salt II. II effectively stabilized nylon 6-6 exposed to xenon or fakra illumination for prolonged periods.

IC ICM C07D249-20

ICS C07D251-24; C07D401-12; C08K005-19; C08K005-3492; C08K005-3475

28-19 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 40, 41 STlight stabilizer cationic triazine triazole; arylalkylamine quaternized

fiber light stabilizer; polyamide base dyed stabilizer triazine; polyacrylonitrile base dyed stabilizer triazine; polyester base dyed stabilizer triazine

TT Dyes

CC

(light stabilizers for, quaternized arylalkylamines as)

IT 128643-99-2P **128644-01-9P** 128644-03-1P 128644-05-3P 128644-06-4P 128669-11-4P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as light stabilizer for base-dyed synthetic fibers)

IT 128644-01-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as light stabilizer for base-dyed synthetic fibers)

128644-01-9 HCA RN

CN Ethanaminium, 2-(4-benzoyl-3-hydroxyphenoxy)-N, N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 128644-00-8 CMF C20 H26 N O3

$$\begin{array}{c} \text{Me} \\ \downarrow + \\ \text{Et} \\ \downarrow \\ \text{Et} \\ \\ \text{OH} \\ \\ \text{OH} \\ \\ \\ \text{OH} \\ \\ \end{array}$$

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

L56 ANSWER 3 OF 6 HCA COPYRIGHT 2003 ACS on STN 111:39004 Benzophenone derivatives useful as aqueous photoinitiators for UV-cured lacquer films, their photocurable compositions, and a process for their preparation. Green, Peter Nicholl; Green, William Arthur (Ward, Blenkinsop and Co. Ltd., UK). Eur. Pat. Appl. EP 279475 A2 19880824, 9 pp. DESIGNATED STATES: R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1988-200105 19880208. PRIORITY: GB 1987-3606 19870217.

C. Shosho

GI

$$R^2$$
 $C$ 
 $R^1$ 
 $OCH_2CHCH_2X$ 
 $OH$ 
 $OH$ 

Title derivs. I [X = SO3H or alkali metal salt, N+R5R6R7 A-; R1-R4 = H, halo, OH, C1-6 alkyl, alkoxy, or alkylthio, OCH2CH(OH)CH2X; R5 = alkyl, PhCH2; R6, R7 = alkyl; A- = anion] are prepd. for use as water-sol. initiators for UV-cured lacquer films. Etherification of 4-hydroxybenzophenone with glycidyltrimethylammonium chloride in refluxing Me2CHOH contg. NaOEt (to pH 9) gave, after 2 crystns., 75.4% I (R1-R4 = H; X = Me3N+ C1-; linkage at 4-position) (II). In a photocurable test compn. contg. 0.00043 M initiator in RCP 2702 (Lankro prepolymer) 3.1, H2O 1.75, and MeN(CH2CH2OH)2 0.15 g, II performed as well as 4-benzoyl-N,N,N-trimethylbenzenemethanaminium chloride in terms of color, glass, and curing speed, but lacked the amine-like odor of the latter compd.

IC ICM C07C097-10

ICS C07C143-11; C07C149-36; G03C001-68

CC 25-16 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 42, 74

IT 118550-13-3, RCP 2702

RL: RCT (Reactant); RACT (Reactant or reagent)

(polymn. of, using benzophenone photoinitiators)

Ι

TT 113184-23-9P 115010-26-9P 118604-98-1P

118604-99-2P 118605-00-8P 118605-01-9P

118605-02-0P 118605-03-1P 118605-04-2P

**118605-05-3P** 118643-48-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as photoinitiator for UV-cured lacquers)

IT 113184-23-9P 118604-98-1P 118604-99-2P

118605-00-8P 118605-01-9P 118605-02-0P

118605-03-1P 118605-04-2P 118605-05-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, as photoinitiator for UV-cured lacquers)

RN 113184-23-9 HCA

CN 1-Propanaminium, 3-(4-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl-

RN 118604-98-1 HCA

John Calve, EIC - 1700

CN 1-Propanaminium, 3-(3-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl-

RN 118604-99-2 HCA CN 1-Propanaminium, 3-(2-benzoylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl-

RN 118605-00-8 HCA CN 1-Propanaminium, 3-(2-benzoyl-5-methoxyphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• Cl -

RN 118605-01-9 HCA CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[4-(4-methylbenzoyl)phenoxy]-, chloride (9CI) (CA INDEX NAME)  $\begin{array}{c|c} O \\ \hline \\ O \\ \hline \\ O \\ \hline \\ C \\ \hline \\ O \\ \hline \\ C \\ \hline \\ O \\ \\ C \\ \hline \\ C \\ \hline \\ O \\ C \\ H_2 \\ \hline \\ C \\ H_2 \\ - \\ N^+ \\ Me_3 \\ \end{array}$ 

• c1-

RN 118605-02-0 HCA

CN 1-Propanaminium, 3-[4-(4-chlorobenzoyl)phenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• cl~ .

RN 118605-03-1 HCA

CN 1-Propanaminium, 3-(4-benzoyl-2,6-dimethylphenoxy)-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl-

RN 118605-04-2 HCA

CN 1-Propanaminium, 2-hydroxy-N,N,N-trimethyl-3-[3-[4- (methylthio)benzoyl]phenoxy]-, chloride (9CI) (CA INDEX NAME)

RN 118605-05-3 HCA

1-Propanaminium, 3,3'-[carbonylbis(4,1-phenyleneoxy)]bis[2-hydroxy-N,N,N-CN trimethyl-, dichloride (9CI) (CA INDEX NAME)

2 Cl~

L56 ANSWER 4 OF 6 HCA COPYRIGHT 2003 ACS on STN 106:51808 Water-soluble UV absorbers for coatings. Sugiura, Motoyasu; Araga, Toshimi; Hiruta, Osamu; Suzuki, Shoichi (Toyota Central Research and Development Laboratories, Inc., Japan). Jpn. Kokai Tokkyo Koho JP 61192778 A2 19860827 Showa, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1985-33418 19850221.

GΙ

The title compds. were prepd. having the general formula I (A, B = H,AΒ halogen, alkyl, alkoxy; Y = H, OH; Z and/or Z1 = quaternary ammonium group). Thus, 0.1 mol 2,4-dihydroxybenzophenone was treated with 0.1 mol aminoacetyl chloride in the presence of pyridine and NaOH at 100.degree. for 6 h to give the corresponding quaternary ammonium salt which showed good performance as a light stabilizer in a solvent-based baked amino alkyd coating pigmented with TiO2.

IC

ICM C09K003-00 ICS A61K007-42; C08K005-17; D06P001-66 42-8 (Coatings, Inks, and Related Products) CC

106327-84-8 106428-26-6 106428-27-7 ITRL: USES (Uses)

(UV absorbers, for coatings)

IT 106327-84-8 106428-26-6 106428-27-7 10/035,736

RL: USES (Uses)

C. Shosho

(UV absorbers, for coatings)

RN 106327-84-8 HCA

CN Ethanaminium, 2-(4-benzoyl-3-hydroxyphenoxy)-N,N,N-trimethyl-2-oxo-, iodide (9CI) (CA INDEX NAME)

● T-

RN 106428-26-6 HCA

CN Ethanaminium, 2,2'-[carbonylbis[(3-hydroxy-4,1-phenylene)oxy]]bis[N,N,N-trimethyl-2-oxo-, diiodide (9CI) (CA INDEX NAME)

$$Me_3+N-CH_2-C-O$$
OH
OH
OH
OH

●2 I~

RN 106428-27-7 HCA

CN 1-Propanaminium, 3,3'-[carbonylbis[(4-hydroxy-6-methoxy-3,1-phenylene)sulfonylimino]]bis[N,N,N-trimethyl-, dibromide (9CI) (CA INDEX NAME)

●2 Br-

L56 ANSWER 5 OF 6 HCA COPYRIGHT 2003 ACS on STN 74:4636 (4-Hydroxy-1-naphthoylmethyl)trimethylammonium azo dyes.

08/20/2003

Blackwell, John (du Pont de Nemours, E. I., and Co.). Ger. Offen. DE 2003540 19700827, 29 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1970-2003540 19700127.

GI For diagram(s), see printed CA Issue.

The title compds. (I), orange to violet **dyes** for acrylic fibers, were prepd. by coupling 1,4-HOC10H6CO-CH2N+Me3Cl- (II) with diazotized RNH2. Thus, 1-C10H7OH was treated with ClCH2CN at 25-35.degree. in PhCl contg. AlCl3 and HCl gas to give 90% 1,4-HOC10H6COCH2Cl which was quaternized with Me3N in MeOH to give 99% II. Diazotized PhNH2 was coupled with II to give 90% I (R = Ph), bright orange on acrylic and polyamide fibers. An addnl. 52 I were prepd. similarly.

IC CO9B

CC 40 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

ST quaternary ammonium azo dyes; azo dyes quaternary ammonium; cationic azo dyes; naphthoylmethyl azo dyes; acrylic fibers dyes; polyamide fibers dyes

IT Dyes, azo

([[hydroxy(phenylazo)naphthoyl]methyl]trimethylammonium derivs., synthetic fibers)

IT Fiber, acrylic, uses and miscellaneous
 Nylon, uses and miscellaneous
 RL: USES (Uses)

(**dyes** for, [[hydroxy(phenylazo)naphthoyl]methyl]trimethylammo nium derivs. as)

TΤ 27617-95-4P 27617**-**96-5P 27618-37-7P 27618-38-8P 27618-39-9P 27744-78-1P 30185-08-1P 30185-12-7P 30185-14-9P 30185-15-0P 30185-17-2P 30185-18-3P 30185-19**-**4P 30185-16-1P 30185-20-7P 30185-21-8P 30185-22-9P 30185-23-0P 30185-24-1P 30185-25-2P 30185-29-6P 30185-26-3P 30185-27-4P 30185-28-5P 30185-30-9P 30185-32-1P 30185-35-4P 30185-31-0P 30185-33-2P 30185-34-3P 30185-36-5P 30185-37-6P 30185-38-7P 30185-39-8P 30190-93-3P 30190-94-4P 30191-05-0P 30191-06-1P 30191-07-2P 30191-08-3P 30191-09-4P **30191-10-7P** 30191-11-8P 30191-12-9P 30191-13-0P 30191-14-1P 30191-15-2P 30292-06-9P 30292-07-0P 30292-08-1P 30292-09-2P 30296-21-0P 30296-22-1P 32483-47-9P RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)

IT 30191-10-7P

RN 30191-10-7 HCA

CN Ammonium, [[3-[(p-benzoylphenyl)azo]-4-hydroxy-1-naphthoyl]methyl]trimethyl-, chloride (8CI) (CA INDEX NAME)

● Cl-

L56 ANSWER 6 OF 6 HCA COPYRIGHT 2003 ACS on STN

73:78488 Modified poly(ethylene terephthalate). Tanaka, Tatsuo; Hanada, Tsuneo; Nogi, Ritsuo; Yasuhara, Yutaka (Toray Industries, Inc.). Jpn. Tokkyo Koho JP 45014151 B4 19700520 Showa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP 19670816.

AB Light stability (discoloration resistance) of dyed and modified polyester fibers such as dyed poly(ethylene terephthalate) contg. m-HOC6H4SO3Na is improved by incorporating a quaternary ammonium salt 2,3,4,5-R1R2R3R4C6HXn(CH2)2N+R3Cl- (I) in the dye bath. I used were [R,R1,R2,R3,R4, n, and X given]: Me, H, OH, Bz, H, 1, O; Me, OH, H, H, H, 1, CO; Me, H, Me3C, OH, tert-Bu, 0, -; Et, OH, 2-benzotriazolyl, H, H, 0, -; Me, H, H, 2,5-HO(Cl)C6H3CO, H, 1, O; Et, HO, 5-chloro-2-benzotriazolyl, H, H, 0, -; Me, H, OH, Ac, H, 1, O; Me, H, OH, tert-Bu, H, 1, O].

NCL 48B01

CC 39 (Textiles)

ST light stability **dyed** polyester fibers; polyester fibers **dyed** light stability; quaternary salts light stabilizers

IT **27147-32-6** 27147-34-8 27147-35-9 **27147-36-0** 27147-37-1 27147-38-2 27147-39-3 29490-98-0 RL: USES (Uses)

(in polyester fibers, for prevention of discoloration)

IT 27147-32-6 27147-36-0

RL: USES (Uses)

(in polyester fibers, for prevention of discoloration)

RN 27147-32-6 HCA

CN Ammonium, [2-(4-benzoyl-3-hydroxyphenoxy)ethyl]trimethyl-, chloride (8CI) (CA INDEX NAME)

$$Me_3+N-CH_2-CH_2-O$$
 $C-Ph$ 
 $OH$ 
 $OH$ 

● cl-

RN 27147-36-0 HCA

CN Ammonium, [2-[p-(chlorosalicyloyl)phenoxy]ethyl]trimethyl-, chloride (8CI) (CA INDEX NAME)

● cl~

=> d L61 1-5 cbib abs hitstr

L61 ANSWER 1 OF 5 HCA COPYRIGHT 2003 ACS on STN

139:118095 Photoprotective and lightfastness-enhancing siloxanes and cosmetic composition. Smith, Thomas W.; McGrane, Kathleen M. (Xerox Corporation, USA). U.S. Pat. Appl. Publ. US 2003133886 A1 20030717, 33 pp. (English). CODEN: USXXCO. APPLICATION: US 2001-1572 20011115.

AB The title triorganosilyl-terminated polysiloxane copolymers have substituents, R1-9, and R10 = alkyl, aryl, arylalkyl, or alkylaryl, R11, R12 = alkylene, arylene, arylalkylene, or alkylarylene, G = cationic moiety, A = anionic moiety, n = integer representing the no. of repeat OSi(R7)(R8) monomer units, a = integer representing the no. of repeat OSi(R10)(R12 -lightfastness moiety) monomer units, and c = integer representing the no. of repeat OSi(R9)(R11-hydrophilic moiety) monomer units. Sunscreen compns. are given.

562084-80-4DP, reaction products with dimethylsilanediol-ethylene
oxide-methylsilanediol copolymer Me ether, trimethylsilyl-terminated
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(photoprotective and lightfastness-enhancing siloxanes)

RN 562084-80-4 HCA

CN Ethanaminium, 2-[[3-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)

L61 ANSWER 2 OF 5 HCA COPYRIGHT 2003 ACS on STN

135:9815 Use of benzotriazole derivatives as hair sunscreens. Ehlis, Thomas (Ciba Specialty Chemicals Holding Inc., Switz.). PCT Int. Appl. WO

2001036396 A1 20010525, 50 pp. DESIGNATED STATES: W: AE, AG,
AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2000-EP10969 20001107. PRIORITY: EP 1999-811053 19991116.

GI

The use of benzotriazole UV absorbers of formula (I), wherein A is a ketoether, ketoamine, or sulfur-contg. amine; B is tertiary or quaternary amine, or a heterocyclic radical; R1, R2, R3, R4, R5 and R6 are each independently of the others hydrogen, C1-C16 alkyl; C5-C7 cycloalkyl; halogen; R9 is hydrogen, C1-C12 alkyl; or C5-C7 cycloalkyl; R7, R8 and R10 are each independently of the others hydrogen, C1-C12 alkyl C5-C7 cycloalkyl, C1-C12 hydroxyalkyl; R11 is C1-C12 alkyl; or C5-C7 cycloalkyl; R12 and R13 are each independently of the other hydrogen; or C1-C5 alkyl; in the cosmetic treatment of human hair for protection against UV radiation is described. Prepn. of 14 benzotriazole derivs. is described. Stability and antimicrobial action of these derivs. was also shown.

IT 340964-07-0P 340964-08-1P 340964-10-5P 340964-14-9P 340964-15-0P 340964-18-3P 340964-19-4P 340964-20-7P 340964-26-3P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of benzotriazole derivs. as hair sunscreens)

RN 340964-07-0 HCA

CN 1-Butanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-diethyl-, bromide (9CI) (CA

INDEX NAME)

● Br

RN 340964-08-1 HCA CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)

• I-

RN 340964-10-5 HCA
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N-diethyl-N-methyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 340964-09-2 CMF C27 H40 N5 O2

# C. Shosho

CM2

16722-51-3 CRN C7 H7 O3 S CMF

340964-14-9 HCA RN

 $1- \texttt{Octanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-(2H-benzotriazol-2-yl)$ hydroxyphenyl]-1-oxopropyl]amino]propyl]-N, N-diethyl-, bromide (9CI) (CA CNINDEX NAME)

Me- (CH<sub>2</sub>) 
$$7 - N^{+}$$
 (CH<sub>2</sub>)  $3 - NH - C - CH2 - CH2

Et

N
N
OH
Bu-t$ 

#### ● Br<sup>-</sup>

340964-15-0 HCA RN

1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4hydroxyphenyl]-1-oxopropyl]amino]-N, N-diethyl-N-methyl-, methyl sulfate CN (salt) (9CI) (CA INDEX NAME)

CM1

340964-09-2 CRN C27 H40 N5 O2 CMF

$$\begin{array}{c} \text{Me} & \text{O} \\ \text{Et} & \text{N}^{+} \text{ (CH2)} \text{ 3-NH-C-CH2-CH2} \\ \text{Et} & \text{N} & \text{N} & \text{OH} \end{array}$$

CM2 CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 340964-18-3 HCA
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 340964-17-2 CMF C25 H36 N5 O2

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 340964-19-4 HCA
CN 1-Propanaminium, 3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]amino]-N,N,N-trimethyl-, iodide (9CI) (CA INDEX NAME)

● T<sup>-</sup>

RN 340964-20-7 HCA CN 1-Octanaminium, N-[3-[[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-

John Calve, EIC - 1700

Page 41

703-308-4139

C. Shosho

hydroxyphenyl]-1-oxopropyl]amino]propyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

Me 
$$(CH_2)_7 - N^{+} (CH_2)_3 - NH - C - CH_2 - CH_2$$
Me  $N$ 
N
Bu-t

● Br<sup>-</sup>

RN 340964-26-3 HCA

CN 1-Propanaminium, 3-[[[3-(2H-benzotriazol-2-yl)-4-hydroxy-5-(1-methylpropyl)phenyl]sulfonyl]amino]-N,N-diethyl-N-methyl-, iodide (9CI) (CA INDEX NAME)

• I-

L61 ANSWER 3 OF 5 HCA COPYRIGHT 2003 ACS on STN 130:169756 Inhibition of pulp and paper yellowing using nitroxides and other

co-additives. Seltzer, Raymond; Wolf, Jean-Pierre; Heitner, Cyril; Schmidt, John Alois; Mcgarry, Peter Francis; Cunkle, Glen Thomas; Nelson, Randall Bruce (Ciba Specialty Chemicals Holding Inc., Switz.). PCT Int. Appl. WO 9905108 Al 19990204, 195 pp. DESIGNATED STATES: W:
AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-EP4381

AB Pulps or papers, esp. semichem. or thermomech. pulps or papers, which still contain lignin, have enhanced resistance to yellowing when they contain an effective stabilizing amt. of a hindered amine compd. which preferably is a nitroxide, a hydroxylamine or an ammonium salt thereof. The yellowing resistance is often further enhanced by the presence of one

19980714. PRIORITY: US 1997-53489 19970723; US 1997-54968 19970807.

or more co-additives selected from the group consisting of the UV absorbers, the polymeric inhibitors, the nitrones, the fluorescent whitening agents, metal chelating agents, S-contg. stabilizers, metal salts and diene compds. Combinations of nitroxides, hydroxylamines or their salts, benzotriazole or benzophenone UV absorbers and a metal chelating agent are particularly effective. Selected derivs. of 1-oxyl-2,2,6,6-tetramethylpiperidin-4-ol and selected hydroxylamine salts are novel compds. and are surprisingly effective for this purpose.

IT **133121~95-6** 

RL: MOA (Modifier or additive use); USES (Uses) (inhibition of pulp and paper yellowing using nitroxides and other co-additives)

RN 133121-95-6 HCA

CN 1-Propanaminium, 3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl ~

L61 ANSWER 4 OF 5 HCA COPYRIGHT 2003 ACS on STN

105:78941 2,2'-Methylenebis(4-hydrocarbyl-6-benzotriazolylphenols). Kubota,
Naohiro; Nishimura, Atsushi (Adeka Argus Chemical Co., Ltd., Japan). Eur.
Pat. Appl. EP 180993 A2 19860514, 16 pp. DESIGNATED STATES: R:
BE, CH, DE, FR, GB, LI, NL. (English). CODEN: EPXXDW. APPLICATION: EP
1985-114203 19851107. PRIORITY: JP 1984-236290 19841109.

N OH CH2

Ι

Me

OH

 $R^2$ 

TΙ

The title compds. (I; R = alkyl, aralkyl, cycloalkyl; R1 = H, halo, alkyl, aryl, arylalkyl, alkoxy, aryloxy, arylalkoxy) were prepd. as light stabilizers for plastics (no data). Thus, benzotriazolylphenol II (R2 = H) underwent Mannich reaction with Et2NH and H2CO to give 99% II (R2 = CH2NEt2). This was refluxed in xylene with NaOMe to give 96% I (R = Me, R1 = H) of 91% purity.

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IT 103597-52-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and coupling of, with phenols)

- RN 103597-52-0 HCA
- CN Benzenemethanaminium, 3-(2H-benzotriazol-2-yl)-N,N-diethyl-2-hydroxy-N,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} \\ & \text{N} \\ & \text{N} \\ & \text{OH} \end{array}$$

**●** ⊤-

- L61 ANSWER 5 OF 5 HCA COPYRIGHT 2003 ACS on STN
- 84:35204 Ultraviolet light-absorbing agents. Hotta, Seiji; Kondo, Yutaka (Sumitomo Chemical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 50121178 19750922 Showa, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1974-28884 19740312.
- GI For diagram(s), see printed CA Issue.
- AB Cationic benzotriazoles I [X = H, halogen, or alkoxy; Y = direct linkage, O, or NR (R = H, alkyl, cyclohexyl or benzyl); W = alkylene, alkenylene, aralkylene, phenylene, or heteroallylene, and contg. O, NR, NRCO, or COO; Z = H, halogen, or alkyl; Q+ = quaternary ammonium group; A- = anion; m = 1 or 2; n = 0 or 1] with uv-absorbing properties were synthesized. I prevented the sensitivity of org. compds. in various products such as cosmetics, fibers, foods etc. Thus, a cosmetic contained white ceresin wax 5, white petrolatum 22, white mineral oil 19.5, anhyd. lanolin 1.5, II [57579-95-0] 2, H2O 36 and perfume 0.5 part.

IT 57579-83-6P 57579-87-0P 57579-88-1P

57579-89-2P 57579-90-5P 57579-91-6P

57579-95-0P 57579-97-2P 57579-99-4P

57580-00-4P 57580-04-8P 57580-06-0P

57580-08-2P 57580-09-3P 57580-10-6P

57580-11-7P 57580-12-8P 57580-13-9P 57580-15-1P 57580-16-2P 57580-17-3P

57588-32-6P 57639-65-3P

RL: PREP (Preparation)

(prepn. of, as uv light stabilizer)

- RN 57579-83-6 HCA
- CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

● Cl -

RN 57579-87-0 HCA CN Ethanaminium, 2-[[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

● Cl-

RN 57579-88-1 HCA
CN Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-5-hydroxy-2methylphenyl]ethylamino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

● Cl-

RN 57579-89-2 HCA
CN 1-Propanaminium, 3-[[4-(2H-benzotriazol-2-yl)-5-hydroxy-2methylphenyl]ethylamino]-N,N,N-trimethyl-3-oxo-, chloride (9CI) (CA INDEX NAME)

John Calve, EIC - 1700

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703-308-4139

C. Shosho

● Cl -

57579-90-5 HCA RN

Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]cyclohexylamino ]-N,N,N-triethyl-2-oxo-, chloride (9CI) (CA INDEX NAME) CN

● Cl-

57579-91-6 HCA RN

CN

Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl](phenylmethyl)a mino]-N-ethyl-N, N-dimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

C1-

57579-95-0 HCA RN

1-Propanaminium, 3-[[6-[[[4-(2H-benzotriazol-2-yl)-3hydroxyphenyl]amino]carbonyl]-3-chloro-2-quinoxalinyl]amino]-N,N-diethyl-N-CNmethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM1

CRN 57579-94-9

C29 H32 Cl N8 O2 CMF

HO NH- 
$$(CH_2)_3 - N^{\frac{1}{2}}$$
 Et Me

CM 2

CRN 21228-90-0

CMF C H3 O4 S

Me-0-503-

57579-97-2 HCA RN

1-Propanaminium, 3-[[4-[[[4-(2H-benzotriazol-2-yl)-3hydroxyphenyl]amino]carbonyl]-6-methoxy-1,3,5-triazin-2-yl]amino]-N,N,N-CNtrimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

1 CM

CRN 57579-96-1 CMF C23 H28 N9 O3

2 CM

CRN 16722-51-3 CMF C7 H7 O3 S 10/035,736

RN57579-99-4 HCA

Ethanaminium, 2-[[3-[[4-(2H-benzotriazol-2-yl))-3-hydroxyphenyl]amino]-1-CN oxopropyl]amino]-N, N-diethyl-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM1

CRN 57579-98-3 CMF C22 H31 N6 O2

CM

21228-90-0 CRN CMF C H3 O4 S

Me-0-503-

57580-00-4 HCA RN

Ethanaminium, 2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N-CN diethyl-N-methyl-, bromide (9CI) (CA INDEX NAME)

Br-

RN 57580-04-8 HCA

Benzenaminium, 3-[[[4-(2H-benzotriazol-2-yl)-3-CN hydroxyphenyl]amino]carbonyl]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

John Calve, EIC - 1700

CM 1

CRN 57580-03-7 CMF C22 H22 N5 O2

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 57580-06-0 HCA
CN Benzenaminium, 4-[2-[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-2oxoethyl]-N,N,N-trimethyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 57580-05-9 CMF C23 H24 N5 O2

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 57580-08-2 HCA CN Ethanaminium, 2-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]acetyl]amino]-N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)

• c1-

RN 57580-09-3 HCA

CN 1-Propanaminium, 3-[[3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1-oxopropyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl -

RN 57580-10-6 HCA

CN Ethanaminium, 2-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]acetyl]oxy]-N,N-diethyl-N-methyl-, chloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O & \text{Me} \\ \parallel & \parallel \\ O - \text{CH}_2 - \text{C} - \text{O} - \text{CH}_2 - \text{CH}_2 - \text{N}^+ \text{ Et} \\ \parallel & \parallel \\ N & \text{OH} \end{array}$$

● Cl-

RN 57580-11-7 HCA

CN Ethanaminium, 2-[2-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]ethoxy]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl - '

RN 57580-12-8 HCA CN 1-Propanaminium, 3-[[[3-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]propyl]sulfonyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl<sup>-</sup>

RN 57580-13-9 HCA CN 1-Propanaminium, 3-[[3-(2H-benzotriazol-2-yl)-4-hydroxybenzoyl]amino]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

• C1-

RN 57580-15-1 HCA CN Ethanaminium, N, N-diethyl-2-[[4-hydroxy-3-(5-methoxy-2H-benzotriazol-2-yl)benzoyl]oxy]-N-methyl-, methyl sulfate (salt) (9CI) (CA INDEX NAME)

CM 1

# C. Shosho

CRN 57580-14-0 CMF C21 H27 N4 O4

CM 2

CRN 21228-90-0 CMF C H3 O4 S

Me-0-503-

RN 57580-16-2 HCA
CN Ethanaminium, 2-[[4-(5-chloro-2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

10/035,736

$$\begin{array}{c|c} & & & \\ & & \\ N & & \\ N & & \\ & & \\ C1 & & \\ \end{array}$$

● C1 =

RN 57580-17-3 HCA
CN Ethanaminium, 2-[[4-(4,6-dichloro-2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & NH-C-CH_2-N+Me_3 \\ \hline \\ C1 & NH-C-CH_2-N+Me_3 \\ \end{array}$$

● Cl-

RN 57588-32-6 HCA
CN 1-Propanaminium, 3-[[4-[4-(2H-benzotriazol-2-yl)-3-hydroxyphenoxy]-1-oxobutyl]amino]-N,N-diethyl-N-methyl-, trichlorozincate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 57588-31-5 CMF C24 H34 N5 O3

CM 2

CRN 23603-98-7 CMF Cl3 Zn CCI CCS

RN 57639-65-3 HCA
CN Benzenemethanaminium, 4-[[[4-(2H-benzotriazol-2-yl)-3-hydroxyphenyl]amino]carbonyl]-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl-

\*\*\*<del>\*</del>\*\*\*\*\*\*\*\*\*\*\*\*\*

As you can see the utility of these records is not close to your application. I gave you a few records for your information

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

=> d L57 1-25 ti

- L57 ANSWER 1 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Preparation of amino acid derivatives as NAD synthetase inhibitors
- L57 ANSWER 2 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Identification of ligand-binding regions of P-glycoprotein by activated-pharmacophore photoaffinity labeling and matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry
- L57 ANSWER 3 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Regioselective photolabeling of glycophorin a in membranes
- L57 ANSWER 4 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI A class of potent antimalarials and their specific accumulation in infected erythrocytes
- L57 ANSWER 5 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Mid-membrane photolabeling of the transmembrane domain of glycophorin A in phospholipid vesicles
- L57 ANSWER 6 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Depth-dependent analysis of membranes using benzophenone-based phospholipids
- L57 ANSWER 7 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Studies on the topography of biomembranes: regioselective photolabeling in vesicles with the tandem use of cholesterol and a half-membrane phospholipid probe
- L57 ANSWER 8 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Synthesis, crystal structure and properties of N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylen]-N-n-dodecylammonium bromide: a new substantive UV filter
- L57 ANSWER 9 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Studies on the topography of biomembranes: regioselective photolabeling in vesicles with the tandem use of cholesterol and a photoactivable

### transmembrane phospholipidic probe

- L57 ANSWER 10 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Studies of the topography of biomembranes: the four-step synthesis of a photoactivatable transmembrane phospholipidic probe and its dideuterated analog
- L57 ANSWER 11 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Selectivity improvement of a simple photosensitive probe in the presence of a large amount of cholesterol
- L57 ANSWER 12 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Selective photolabeling in the center of bilayers with a photosensitive transmembrane probe
- L57 ANSWER 13 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Substantivity of sunscreens. In vitro evaluation of the transdermal permeation characteristics of some benzophenone derivatives
- L57 ANSWER 14 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Orientation of the benzophenone group at various depths in bilayers
- L57 ANSWER 15 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Conformation and dynamics in a solution of an N-quaternized cinnamide derivative: a molecule active as a UV filter
- L57 ANSWER 16 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Diels-Alder reactions of a surfactant 1,3-diene
- L57 ANSWER 17 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Preparation of O-phosphonocholine ester derivatives of drugs
- L57 ANSWER 18 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Topography of lactose permease from Escherichia coli
- L57 ANSWER 19 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Synthesis and properties of a photoreactive transmembrane probe
- L57 ANSWER 20 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI DSC studies of the phase transition behavior of synthetic bilayer membranes. Part II. Bilayer membranes of single-chain and triple-chain amphiphiles
- L57 ANSWER 21 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI UV stabilizers for plastics
- L57 ANSWER 22 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI 1-Palmitoyl-2-(p-benzoyl)benzoyl phosphatidylcholine, a photoactive phospholipid for the labeling of membrane components
- L57 ANSWER 23 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI [[(Aminomethyl)aryl]oxy]acetic acid esters. A new class of high-ceiling diuretics. 1. Effects of nitrogen and aromatic nuclear substitution
- L57 ANSWER 24 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI 5-Nitro-2-[(trimethylammonio)acetamido]benzophenone bromide
- L57 ANSWER 25 OF 25 HCA COPYRIGHT 2003 ACS on STN
- TI Activity of some quaternary salts of .beta.-arylhydroxyethylaralkylammoniu m in experimental helminthiasis in white mice

=> d L57 8,11,13,14,15,23,24 cbib abs hitstr

L57 ANSWER 8 OF 25 HCA COPYRIGHT 2003 ACS on STN

128:248330 Synthesis, crystal structure and properties of N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylen]-N-n-dodecylammonium bromide: a new substantive UV filter. Anselmi, C.; Centini, M.; Francioli, M.; Sega, A. (Istituto di Chimica Organica, Universita di Siena, Italy). Acta Technologiae et Legis Medicamenti, 8(2), 85-93 (English) 1997. CODEN: ATLMEQ. ISSN: 1121-2098. Publisher: Casa Editrice Maccari.

AB N,N-dimethyl-N-[6-(benzoyl-4-phenoxy)hexamethylene]-N-n-dodecylammonium bromide was prepd. its substantivity and antimicrobial properties were evaluated, and the solid-state conformation was detd. by single crystal x-ray diffraction. The conformation of the mol., which has been shown to play a fundamental role for the antibacterial activity of these compds., presents an extensive folding of the n-dodecyl chain back towards and along the arom. moiety. Coiled conformations that have been assocd. with antibacterial properties and skin irritation phenomena are absent.

IT 204852-25-5

RL: PRP (Properties)

(prepn. and crystal structure and properties of benzoylphenoxyhexamethylenedodecylammonium bromide as substantive UV filter)

RN 204852-25-5 HCA

CN 1-Dodecanaminium, N-[3-[4-([1,1'-biphenyl]-4-ylcarbonyl)-3-hydroxyphenoxy]propyl]-N,N-dimethyl-, bromide (9CI) (CA INDEX NAME)

● Br

L57 ANSWER 11 OF 25 HCA COPYRIGHT 2003 ACS on STN
121:174527 Selectivity improvement of a simple photosensitive probe in the presence of a large amount of cholesterol. Fredriksen, Siw Bodil; Dolle, Valerie; Yamamoto, Masakuni; Nakatani, Yoichi; Goeldner, Maurice; Ourisson, Guy (Univ. Louis Pasteur, Strasbourg, F-67084, Fr.). Angewandte Chemie, 106(11), 1230-2 (See also Angew. Chem., Int. Ed. Engl., (1994), 33(11), 1176-8) (German) 1994. CODEN: ANCEAD. ISSN: 0044-8249. OTHER SOURCES: CASREACT 121:174527.

GI

AB The photoactivatable phospholipid transmembrane probe I, a half mol. of the previously described II, was easily synthesized, and its advantageous properties recommend its use for the investigation of inner membrane topog., esp. in relation to membrane proteins.

IT 116113-36-1

RL: ANST (Analytical study)

(photosensitive membrane probe based on)

RN 116113-36-1 HCA

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7,7'-[carbonylbis[4,1-phenyleneoxy(1-oxo-11,1-undecanediyl)oxy]]bis[4-hydroxy-N,N,N-trimethyl-10-oxo-, bis(inner salt), 4,4'-dioxide, (7R,7'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

IT 157622-82-7P

RL: PREP (Preparation)

(prepn. of, as photosensitive membrane probe)

RN 157622-82-7 HCA

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 4-hydroxy-7-[[11-[4-(4-methoxybenzoyl)phenoxy]-1-oxoundecyl]oxy]-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

N+Me3

L57 ANSWER 13 OF 25 HCA COPYRIGHT 2003 ACS on STN
119:15087 Substantivity of sunscreens. In vitro evaluation of the transdermal permeation characteristics of some benzophenone derivatives. Monti, D.; Saettone, M. F.; Centini, M.; Anselmi, C. (Lab. Technol. Farm. Biofarm., Univ. Pisa, Pisa, I-56100, Italy). International Journal of Cosmetic Science, 15(2), 45-52 (English) 1993. CODEN: IJCMDW. ISSN: 0142-5463.

AB The in vitro permeation through excised hairless mouse skin of a series of 4-O-(N,N-dimethylaminoalkyl)benzophenones, nonquaternized, and of 2 com.

benzophenone sunscreens, taken as ref. compds., was investigated. The aim of the study was to verify the skin penetration of the highly skin-substantive quaternary ammonium derivs., in comparison with their parent, nonquaternized compds. While the quaternary derivs. were unable to permeate the skin during the period of observation (45 h), their parent amine hydrochlorides and the ref. sunscreens (2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and 2,2'-dihydroxy-4,4'-dimethoxy-benzophenone 5,5'-sodium disulfonate), showed appreciable transdermal fluxes. These data indicate that the presence of a quaternary ammonium group in a mol., besides inducing a high affinity for cutaneous keratin, may result in hindered or reduced transdermal (and possibly systemic) absorption. Both features may contribute in improving the safety of a cosmetic sunscreen.

#### IT 145300-38-5 148193-41-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(penetration of, in vitro, through hairless skin, sunscreens substantivity in relation to)

RN 145300-38-5 HCA

CN 1-Dodecanaminium, N-[3-(4-benzoyl-3-hydroxyphenoxy)propyl]-N,N-dimethyl-(9CI) (CA INDEX NAME)

Me 
$$(CH_2)_{11}$$
  $N_{+}$   $(CH_2)_{3}$   $N_{-}$   $N_{+}$   $N_{-}$   $N_{-}$ 

RN 148193-41-3 HCA

CN 1-Dodecanaminium, N-[2-(4-benzoyl-3-hydroxyphenoxy)ethyl]-N, N-dimethyl-(9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \text{Me} - (\text{CH}_2)_{11} - \text{N}^+ - \text{CH}_2 - \text{CH}_2 - \text{O} \\ \text{Me} \\ \\ \text{OH} \\ \text{OH} \end{array}$$

L57 ANSWER 14 OF 25 HCA COPYRIGHT 2003 ACS on STN

118:229633 Orientation of the benzophenone group at various depths in bilayers. Lala, Anil K.; Kumar, E. Ravi (Dep. Chem., Indian Inst. Technol., Bombay, 400076, India). Journal of the American Chemical Society, 115(10), 3982-8 (English) 1993. CODEN: JACSAT. ISSN: 0002-7863.

AB The hydrophobic core of biol. membranes is primarily composed of fatty acyl chains of lipids and side chains of nonpolar amino acids belonging to membrane-spanning domains of transmembrane proteins. Electron transport across the 35-40-.ANG. membrane dielec. takes place via suitably oriented electron-transfer groups assocd. with transmembrane domains of membrane-bound proteins. It is proposed here that the design of lipids bearing electron-transport groups oriented at different depths can provide

the necessary supramol. assembly in the form of a monolayer or a bilayer to carry out electron transfer. The design of these modified lipids is crucial to the success of such a mol. device. Here the design and synthesis of three benzophenone-based phospholipids capable of orienting the benzophenone group at different depths in a bilayer are reported. The orientation of the benzophenone group was detd. by photochem. crosslinking of these lipids with dimyristoylphosphatidylcholine in single bilayer vesicles followed by mass spectral analyses of the cross-linked products. The actual site of crosslinking on the myristoyl chain was detd., and it was obsd. that a range of carbon atoms are functionalized. The range of carbon atoms functionalized was found to be centered around the position expected from the transverse location of the benzophenone-based phospholipid in the bilayer. The data could be best interpreted in terms of zones of carbon atoms functionalized rather than any discrete site. This is in keeping with the current models of membranes which suggest the presence of a fluid gradient as one goes down the fatty acyl chain in the membrane. However, the range of carbon atoms functionalized was narrowed with probes reported here. The use of a hydrophobic tail attached to the benzophenone group assisted in directing the orientation of the photoactive group at different depths. Besides providing an effective design strategy for the orientation of electron-transfer groups at different depths in a bilayer, the high insertion yield and the depth-dependent labeling obsd. in artificial membranes suggest that the benzophenone-based phospholipids reported here could also prove useful for studying the structure of single and multiple spanning transmembrane proteins.

147299-40-9P 147299-41-0P 147299-42-1P IT

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and membrane orientation of)

147299-40-9 HCA RN

CN 3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7-[[6-(4-benzoylphenyl)-1oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (7R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

147299-41-0 HCA RN

3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7-[[6-[4-(4-hexylbenzoyl)phenyl]-CN1-oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (7R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

N+Me3

147299-42-1 HCA RN

3,5,9-Trioxa-4-phosphatricosan-1-aminium, 7-[[6-[4-(4-butylbenzoyl)phenyl]-CN 1-oxohexyl]oxy]-4-hydroxy-N,N,N-trimethyl-10-oxo-, inner salt, 4-oxide, (R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$_{n-Bu}$$
 O  $_{(CH_2)_{12}}$  Me  $_{(CH_2)_{5}}$  O  $_{R}$  O  $_{O}$ 

PAGE 1-B

PAGE 1-A

-N+Me3

L57 ANSWER 15 OF 25 HCA COPYRIGHT 2003 ACS on STN 118:59067 Conformation and dynamics in a solution of an N-quaternized cinnamide derivative: a molecule active as a UV filter. Anselmi, Cecilia; Centini, Marisanna; Scotton, Mirella; Sega, Alessandro (Ist. Chim. Org., Siena, 53100, Italy). Magnetic Resonance in Chemistry, 30(10), 944-9 (English) 1992. CODEN: MRCHEG. ISSN: 0749-1581. The dynamics and conformation of N,N-dimethyl-N-[3-(4-methoxy-trans-

The dynamics and conformation of N,N-dimethyl-N-[3-(4-methoxy-trans-cinnamoylamino)propyl]-N-n-dodecylammonium bromide (I) are detd. in CDCl3 or DMSO-d6 by the use of 13C spin-lattice relaxation rates, nonselective and selective proton spin-lattice relaxation rates and 1H-(1H) NOE expts. The 2 solvents affect the conformation of the cinnamide moiety in different ways. This alters the anchor capacity of the moiety towards the alkyl chain and, as a consequence, the dynamics of I in CDCl3 and DMSO-d6 show understandable differences. The main mean conformations of I in both solvents are linear. The data do not allow the rationalization of the relation between conformation and sunscreen efficiency.

IT 145300-38-5

GΙ

RL: PRP (Properties)

(coiling of dodecyl chain in, antibacterial and skin irradn. activity in relation to)

RN 145300-38-5 HCA

CN 1-Dodecanaminium, N-[3-(4-benzoyl-3-hydroxyphenoxy)propyl]-N,N-dimethyl-(9CI) (CA INDEX NAME)

Me Me (CH<sub>2</sub>)<sub>11</sub> 
$$-$$
 N<sup>+</sup> (CH<sub>2</sub>)<sub>3</sub>  $-$  O Me C- Ph

L57 ANSWER 23 OF 25 HCA COPYRIGHT 2003 ACS on STN

101:230080 [[(Aminomethyl)aryl]oxy]acetic acid esters. A new class of high-ceiling diuretics. 1. Effects of nitrogen and aromatic nuclear substitution. Lee, Cheuk Man; Plattner, Jacob J.; Ours, C. Wayne; Horrom, Bruce W.; Smital, Jill R.; Martin, Yvonne C.; Pernet, Andre G.; Bunnell, Paul R.; El Masry, Souheir E.; Dodge, Patrick W. (Div. Pharmacol. Med. Chem., Abbott Lab., North Chicago, IL, 60064, USA). Journal of Medicinal Chemistry, 27(12), 1579-87 (English) 1984. CODEN: JMCMAR. ISSN: 0022-2623. OTHER SOURCES: CASREACT 101:230080.

AB A series about 60 of Mannich bases and aminomethyl derivs. of Et [2,3-dichloro-4-(4-hydroxybenzoyl)phenoxy]acetate were synthesized and tested for saluretic and diuretic activities. Thus, [2,3-dichloro-4-(4-hydroxybenzoyl)phenoxy]acetic acid was aminomethylated with ClCH2CONHCH2OH and the product esterified with EtOH to give Et [2,3-dichloro-4-[3-

### C. Shosho

(aminomethyl)-4-hydroxybenzoyl]phenoxy]acetate (I). The effects of nitrogen and arom. nuclear substitution, reorientation of the aminomethyl group relative to that of the phenolic hydroxyl group, and replacement of either the phenolic hydroxyl or the aminomethyl group by other functional groups are described. I was found to be a very potent, high-ceiling diuretic.

IT 92270-36-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and diuretic activity of)

RN 92270-36-5 HCA

CN Benzenemethanaminium, 5-[2,3-dichloro-4-(2-ethoxy-2-oxoethoxy)benzoyl]-2-hydroxy-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl -

L57 ANSWER 24 OF 25 HCA COPYRIGHT 2003 ACS on STN

92:22215 5-Nitro-2-[(trimethylammonio)acetamido]benzophenone bromide.

Bogatskii, A. V.; Shmigel, T. M.; Rudenko, O. P.; Andronati, S. A. (USSR).

Khimicheskaya Promyshlennost, Seriya: Reaktivy i Osobo Chistye

Veshchestva (2), 28-9 (Russian) 1979. CODEN: KSRVDF.

AB Quaternization of 4.2-X(PhCO)C6H3NHCOCH2Br (X = O2N, C1, Br) with R3N (R = Me, Et) in C6H6 to give .apprx.72% 4.2-X(PhCO)C6H3NHCOCH2NR3+ Br-, which have hypotensive activity (no data).

IT 72220-44-1P 72220-45-2P

RN 72220-44-1 HCA

CN Ethanaminium, 2-[(2-benzoyl-4-nitrophenyl)amino]-N,N,N-trimethyl-2-oxo-, bromide (9CI) (CA INDEX NAME)

Br-

C. Shosho

RN 72220-45-2 HCA CN Ethanaminium, 2-[(2-benzoyl-4-nitrophenyl)amino]-N,N,N-triethyl-2-oxo-, bromide (9CI) (CA INDEX NAME)

• Br-



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